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## **Illinois Statewide Report of Methicillin-resistant *Staphylococcus aureus* (MRSA) Bloodstream Infections in Acute Care Hospitals, NHSN Surveillance Reporting January 1, 2012 – December 31, 2012**

As of January 1, 2012, all Illinois hospitals began mandated reporting of blood cultures positive for MRSA using the Center for Disease Control and Prevention's National Healthcare Safety Network (NHSN) Multidrug-Resistant Organism (MDRO) Laboratory-identified (LabID) Event module.

NHSN reporting enables a facility to rely almost exclusively on data obtained from the laboratory and allows the calculation of proxy measures of MRSA bloodstream events, exposures and healthcare acquisition. This is the first annual Illinois Department of Public Health report for hospital-onset MRSA positive blood cultures, using data submitted by hospitals to NHSN expressed as Standardized Infection Ratio (SIR).

### **Standardized Infection Ratio**

The standardized infection ratio (SIR) and corresponding 95% confidence intervals for each LabID event type is calculated for facilities reporting Healthcare Facility Onset (HO) Incidence Rate of MRSA data to NHSN. The SIRs use risk models to determine the predicted number of MRSA infections based on the baseline data (referent population, 2010-2011 Inpatient facility-wide NHSN surveillance data), adjusting for significant risk factors. A comparison of the actual number of HO incident cases with the predicted number of infections is the SIR for that hospital. Three factors were found to be significant in predicting HO MRSA bacteremia LabID incidence: medical school affiliation, facility bedsize, and CO MRSA bacteremia prevalence rate. This data represents the first twelve months of reporting of MRSA to NHSN, and establishes an annual baseline of MRSA incidence at the facility level.

Additional information regarding these output options and the risk models can be found at: <http://www.cdc.gov/nhsn/PDFs/mrsa-cdi/RiskAdjustment-MRSA-CDI.pdf>

## Methicillin-Resistant *Staphylococcus aureus* (MRSA) Infections Standardized Infection Ratio (SIR<sup>a</sup>)

Reportable Period: January 1, 2012 – December 31, 2012

### STATEWIDE

Hospital	City	Observed [O] Number of MRSA Infections	Number of Patient Days	Statistically "Predicted" [P] Number of MRSA Infections <sup>b</sup>	SIR <sup>c</sup> = O/P	95% Confidence Interval [CI] <sup>d</sup>		Statistical Interpretation <sup>f</sup>
						Lower <sup>e</sup>	Upper	
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	3	166624	10.20	0.29	0.06	0.86	Lower
MEMORIAL MEDICAL CENTER	SPRINGFIELD	10	129452	18.68	0.54	0.26	0.99	Lower
ADVENTIST GLENOAKS HOSPITAL	GLENDAL HTS	1	29926	2.11	0.47	0.01	2.64	Similar
ADVENTIST HINSDALE HOSPITAL	HINSDALE	1	61252	2.68	0.37	0.01	2.08	Similar
ADVENTIST LA GRANGE MEMORIAL HOSPITAL	LA GRANGE	0	38728	1.66	0.00		2.23	Similar
ADVOCATE BROMENN MEDICAL CENTER	NORMAL	2	43110	1.59	1.26	0.15	4.54	Similar
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	13	210084	17.43	0.75	0.40	1.28	Similar
ADVOCATE CONDELL MEDICAL CENTER	LIBERTYVILLE	2	75073	3.52	0.57	0.07	2.05	Similar
ADVOCATE GOOD SAMARITAN HOSPITAL	DOWNERS GROVE	0	79142	3.23	0.00		1.14	Similar
ADVOCATE GOOD SHEPHERD HOSPITAL	BARRINGTON	1	46403	1.90	0.53	0.01	2.94	Similar
ADVOCATE ILLINOIS MASONIC MEDICAL CENTER	CHICAGO	5	84794	6.66	0.75	0.24	1.75	Similar
ADVOCATE SOUTH SUBURBAN HOSPITAL	HAZEL CREST	2	53847	2.78	0.72	0.09	2.60	Similar
ADVOCATE TRINITY HOSPITAL	CHICAGO	1	47649	1.99	0.50	0.01	2.80	Similar
ALEXIAN BROTHERS MEDICAL CENTER	ELK GROVE VILLAGE	4	86422	5.90	0.68	0.19	1.74	Similar
ALTON MEMORIAL HOSPITAL	ALTON	0	23348	1.39	0.00		2.66	Similar
ANDERSON HOSPITAL	MARYVILLE	2	30469	1.25	1.60	0.19	5.78	Similar
ANN & ROBERT H LURIE CHILDREN'S HOSPITAL OF CHICAGO	CHICAGO	1	69948	3.92	0.25	0.01	1.42	Similar
BLESSING HOSPITAL	QUINCY	6	62994	2.58	2.33	0.86	5.07	Similar
CARLE FOUNDATION HOSPITAL	URBANA	10	100550	6.16	1.62	0.78	2.99	Similar
CENTEGRA HOSPITAL	WOODSTOCK	1	30215	1.26	0.79	0.02	4.42	Similar
CENTEGRA HOSPITAL	MCHENRY	1	45087	2.32	0.43	0.01	2.40	Similar
CENTRAL DUPAGE HOSPITAL	WINFIELD	3	100764	3.77	0.80	0.16	2.33	Similar

Hospital	City	Observed [O] Number of MRSA Infections	Number of Patient Days	Statistically "Predicted" [P] Number of MRSA Infections <sup>b</sup>	SIR <sup>c</sup> = O/P	95% Confidence Interval [CI] <sup>d</sup>		Statistical Interpretation <sup>f</sup>
						Lower <sup>e</sup>	Upper	
DECATUR MEMORIAL HOSPITAL	DECATUR	3	42727	2.53	1.19	0.24	3.46	Similar
DELNOR HOSPITAL	GENEVA	0	32663	1.35	0.00		2.72	Similar
EDWARD HOSPITAL	NAPERVILLE	3	95978	4.26	0.70	0.15	2.06	Similar
ELMHURST MEMORIAL HOSPITAL	ELMHURST	0	58657	2.35	0.00		1.57	Similar
FRANCISCAN ST. JAMES HEALTH	CHICAGO HEIGHTS	10	89224	4.80	2.09	1.00	3.83	Similar
FRANCISCAN ST. JAMES HEALTH	OLYMPIA FIELDS	10	89224	4.80	2.09	1.00	3.83	Similar
GALESBURG COTTAGE HOSPITAL	GALESBURG	1	18790	1.19	0.84	0.02	4.69	Similar
GATEWAY REGIONAL MEDICAL CENTER	GRANITE CITY	1	39601	1.50	0.67	0.02	3.71	Similar
GOOD SAMARITAN REGIONAL HEALTH CENTER	MOUNT VERNON	1	26940	1.51	0.66	0.02	3.70	Similar
HERRIN HOSPITAL	HERRIN	3	26961	1.26	2.39	0.49	6.99	Similar
HOLY CROSS HOSPITAL	CHICAGO	1	51457	3.45	0.29	0.01	1.62	Similar
INGALLS MEMORIAL HOSPITAL	HARVEY	2	76275	5.76	0.35	0.04	1.26	Similar
JACKSON PARK HOSPITAL	CHICAGO	2	37366	1.39	1.44	0.17	5.19	Similar
JOHN H STROGER JR HOSPITAL OF COOK COUNTY	CHICAGO	11	104678	10.12	1.09	0.54	1.95	Similar
LITTLE COMPANY OF MARY HOSPITAL & HC CENTERS	EVERGREEN PARK	1	61129	3.35	0.30	0.01	1.66	Similar
LORETTO HOSPITAL	CHICAGO	1	25565	1.30	0.77	0.02	4.29	Similar
LOYOLA GOTTLIEB MEMORIAL HOSPITAL	MELROSE PARK	3	49674	2.19	1.37	0.28	4.01	Similar
LOYOLA UNIVERSITY MEDICAL CENTER	MAYWOOD	11	127875	11.68	0.94	0.47	1.69	Similar
MEMORIAL HOSPITAL	BELLEVILLE	5	73059	3.85	1.30	0.42	3.04	Similar
MEMORIAL HOSPITAL OF CARBONDALE	CARBONDALE	3	37615	1.80	1.67	0.34	4.87	Similar
MERCY HOSPITAL & MEDICAL CENTER	CHICAGO	4	68737	4.43	0.90	0.25	2.31	Similar
METHODIST MEDICAL CENTER OF ILLINOIS	PEORIA	5	75816	3.43	1.46	0.47	3.40	Similar
METROSOUTH MEDICAL CENTER	BLUE ISLAND	1	34226	1.74	0.57	0.02	3.20	Similar
MOUNT SINAI HOSPITAL	CHICAGO	6	73253	4.24	1.42	0.52	3.08	Similar
NORTHSHORE UNIV HS EVANSTON HOSPITAL	EVANSTON	2	100191	5.23	0.38	0.05	1.38	Similar
NORTHSHORE UNIV HS GLENBROOK HOSPITAL	GLENVIEW	0	45065	1.82	0.00		2.03	Similar
NORTHSHORE UNIV HS HIGHLAND PARK HOSPITAL	HIGHLAND PARK	0	42369	1.74	0.00		2.13	Similar

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NORTHSHORE UNIV HS SKOKIE HOSPITAL	SKOKIE	0	61858	3.57	0.00		1.03	Similar
NORTHWEST COMMUNITY HOSPITAL	ARLINGTON HEIGHTS	6	98092	6.36	0.94	0.35	2.06	Similar
NORTHWESTERN LAKE FOREST HOSPITAL	LAKE FOREST	1	30838	1.16	0.87	0.02	4.82	Similar
NORTHWESTERN MEMORIAL HOSPITAL	CHICAGO	18	273288	15.70	1.15	0.68	1.81	Similar
NORWEGIAN-AMERICAN HOSPITAL	CHICAGO	1	33434	2.06	0.48	0.01	2.70	Similar
OSF SAINT ANTHONY MEDICAL CENTER	ROCKFORD	3	48404	2.70	1.11	0.23	3.25	Similar
OSF SAINT FRANCIS MEDICAL CENTER	PEORIA	16	184511	19.49	0.82	0.47	1.33	Similar
OSF ST JOSEPH MEDICAL CENTER	BLOOMINGTON	0	26117	1.11	0.00		3.32	Similar
PALOS COMMUNITY HOSPITAL	PALOS HEIGHTS	6	79053	3.76	1.60	0.59	3.48	Similar
PRESENCE COVENANT MEDICAL CENTER	URBANA	2	33765	2.05	0.98	0.12	3.52	Similar
PRESENCE MERCY MEDICAL CENTER	AURORA	3	51286	2.16	1.39	0.29	4.07	Similar
PRESENCE OUR LADY OF THE RESURRECTION MEDICAL CENTER	CHICAGO	1	48342	3.03	0.33	0.01	1.84	Similar
PRESENCE RESURRECTION MEDICAL CENTER	CHICAGO	1	73457	5.44	0.18	0.01	1.03	Similar
PRESENCE SAINT FRANCIS HOSPITAL	EVANSTON	3	41778	1.64	1.83	0.38	5.35	Similar
PRESENCE SAINT JOSEPH HOSPITAL-CHICAGO	CHICAGO	4	66367	2.90	1.38	0.38	3.53	Similar
PRESENCE SAINT JOSEPH HOSPITAL-ELGIN	ELGIN	2	43407	1.92	1.04	0.13	3.77	Similar
PRESENCE SAINT JOSEPH MEDICAL CENTER	JOLIET	8	114924	7.87	1.02	0.44	2.00	Similar
PRESENCE SAINTS MARY AND ELIZABETH MEDICAL CENTER	CHICAGO	5	120507	5.74	0.87	0.28	2.03	Similar
PRESENCE ST MARYS HOSPITAL	KANKAKEE	1	28329	1.37	0.73	0.02	4.07	Similar
PRESENCE UNITED SAMARITANS MEDICAL CENTER	DANVILLE	1	24018	1.07	0.94	0.02	5.23	Similar
PROCTOR HOSPITAL	PEORIA	0	29629	1.18	0.00		3.12	Similar
RIVERSIDE MEDICAL CENTER	KANKAKEE	2	60014	3.00	0.67	0.08	2.41	Similar
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	1	65457	2.98	0.34	0.01	1.87	Similar
RUSH OAK PARK HOSPITAL	OAK PARK	1	26847	1.71	0.59	0.02	3.26	Similar
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	10	179167	14.30	0.70	0.34	1.29	Similar
RUSH-COPLEY MEDICAL CENTER	AURORA	3	56127	3.16	0.95	0.20	2.77	Similar
SARAH BUSH LINCOLN HEALTH CENTER	MATTOON	2	28111	1.44	1.39	0.17	5.02	Similar

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SHERMAN HOSPITAL	ELGIN	0	64397	2.80	0.00		1.32	Similar
SILVER CROSS HOSPITAL	NEW LENOX	3	129456	5.71	0.53	0.11	1.54	Similar
SOUTH SHORE HOSPITAL	CHICAGO	2	24681	1.40	1.43	0.17	5.16	Similar
ST ALEXIUS MEDICAL CENTER	HOFFMAN ESTATES	2	77274	2.94	0.68	0.08	2.46	Similar
ST ANTHONY HOSPITAL	CHICAGO	0	35031	1.42	0.00		2.59	Similar
ST ANTHONY'S MEMORIAL HOSPITAL	EFFINGHAM	1	27095	1.24	0.80	0.02	4.48	Similar
ST BERNARD HOSPITAL & HEALTH CARE CENTER	CHICAGO	2	41499	1.85	1.08	0.13	3.91	Similar
ST ELIZABETH'S HOSPITAL	BELLEVILLE	1	46850	2.36	0.42	0.01	2.36	Similar
ST JOHN'S HOSPITAL	SPRINGFIELD	6	101678	9.59	0.63	0.23	1.36	Similar
ST MARY'S HOSPITAL	CENTRALIA	0	25531	1.01	0.00		3.64	Similar
ST MARY'S HOSPITAL	DECATUR	3	45394	2.29	1.31	0.27	3.82	Similar
SWEDISH AMERICAN HOSPITAL	ROCKFORD	3	72172	3.07	0.98	0.20	2.85	Similar
SWEDISH COVENANT HOSPITAL	CHICAGO	7	83040	5.45	1.29	0.52	2.65	Similar
THOREK HOSPITAL & MEDICAL CENTER	CHICAGO	0	25038	1.20	0.00		3.07	Similar
TRINITY MEDICAL CENTER-ROCK ISLAND	ROCK ISLAND	5	80958	3.88	1.29	0.42	3.01	Similar
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	20	154403	16.76	1.19	0.73	1.84	Similar
UNIVERSITY OF ILLINOIS MEDICAL CENTER AT CHICAGO	CHICAGO	13	121877	11.94	1.09	0.58	1.86	Similar
VANGUARD WEISS MEMORIAL HOSPITAL	CHICAGO	4	46608	3.30	1.21	0.33	3.11	Similar
VANGUARD WEST SUBURBAN MEDICAL CENTER	OAK PARK	4	27288	3.13	1.28	0.35	3.27	Similar
VANGUARD WESTLAKE HOSPITAL	MELROSE PARK	5	37638	1.95	2.56	0.83	5.98	Similar
VISTA MEDICAL CENTER EAST	WAUKEGAN	2	44519	1.98	1.01	0.12	3.66	Similar
VANGUARD MACNEAL HOSPITAL	BERWYN	10	80287	3.34	3.00	1.44	5.51	Higher
ABRAHAM LINCOLN MEMORIAL HOSPITAL	LINCOLN	2	5138	0.21				SIR Not Available
ADVENTIST BOLINGBROOK HOSPITAL	BOLINGBROOK	0	21309	0.98				SIR Not Available
ADVOCATE EUREKA HOSPITAL	EUREKA	0	1771	0.06				SIR Not Available
CARLINVILLE AREA HOSPITAL	CARLINVILLE	0	2208	0.08				SIR Not Available
CGH MEDICAL CENTER	STERLING	0	18448	0.79				SIR Not Available

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COMMUNITY MEMORIAL HOSPITAL	STAUNTON	0	862	0.03				SIR Not Available
CRAWFORD MEMORIAL HOSPITAL	ROBINSON	0	4165	0.18				SIR Not Available
CROSSROADS COMMUNITY HOSPITAL	MOUNT VERNON	0	3562	0.25				SIR Not Available
DR JOHN WARNER HOSPITAL	CLINTON	0	1348	0.05				SIR Not Available
FAIRFIELD MEMORIAL HOSPITAL	FAIRFIELD	0	4220	0.17				SIR Not Available
FAYETTE COUNTY HOSPITAL	VANDALIA	0	2645	0.10				SIR Not Available
FERRELL HOSPITAL	ELDORADO	0	3089	0.18				SIR Not Available
FHN MEMORIAL HOSPITAL	FREEPORT	0	16906	0.63				SIR Not Available
FRANKLIN HOSPITAL	BENTON	0	1092	0.04				SIR Not Available
GENESIS MEDICAL CENTER-ILLINI CAMPUS	SILVIS	0	14571	0.55				SIR Not Available
GIBSON AREA HOSPITAL & HEALTH SERVICES	GIBSON CITY	0	2759	0.13				SIR Not Available
GRAHAM HOSPITAL	CANTON	1	18972	0.81				SIR Not Available
GREENVILLE REGIONAL HOSPITAL	GREENVILLE	0	5336	0.19				SIR Not Available
HAMILTON MEMORIAL HOSPITAL DISTRICT	MCLEANSBORO	0	2685	0.10				SIR Not Available
HAMMOND-HENRY HOSPITAL	GENESEO	0	3067	0.11				SIR Not Available
HARRISBURG MEDICAL CENTER	HARRISBURG	0	8698	0.40				SIR Not Available
HEARTLAND REGIONAL MEDICAL CENTER	MARION	2	17198	0.65				SIR Not Available
HILLSBORO AREA HOSPITAL	HILLSBORO	0	2539	0.14				SIR Not Available
HOOPESTON COMMUNITY MEMORIAL HOSPITAL	HOOPESTON	0	1031	0.04				SIR Not Available
HOPEDALE MEDICAL COMPLEX	HOPEDALE	1	2832	0.10				SIR Not Available
ILLINI COMMUNITY HOSPITAL	PITTSFIELD	0	1841	0.07				SIR Not Available
ILLINOIS VALLEY COMMUNITY HOSPITAL	PERU	1	10007	0.36				SIR Not Available
JERSEY COMMUNITY HOSPITAL	JERSEYVILLE	0	3999	0.14				SIR Not Available
KATHERINE SHAW BETHEA HOSPITAL	DIXON	0	15140	0.54				SIR Not Available
KEWANEE HOSPITAL	KEWANEE	0	1874	0.10				SIR Not Available
KISHWAUKEE COMMUNITY HOSPITAL	DE KALB	0	20960	0.95				SIR Not Available
LAWRENCE COUNTY MEMORIAL HOSPITAL	LAWRENCEVILLE	0	2613	0.13				SIR Not Available
MARSHALL BROWNING HOSPITAL	DUQUOIN	0	2283	0.08				SIR Not Available
MASSAC MEMORIAL HOSPITAL	METROPOLIS	0	3913	0.17				SIR Not Available

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MCDONOUGH DISTRICT HOSPITAL	MACOMB	0	7279	0.32				SIR Not Available
MEMORIAL HOSPITAL	CARTHAGE	0	3008	0.15				SIR Not Available
MEMORIAL HOSPITAL	CHESTER	0	4813	0.17				SIR Not Available
MENDOTA COMMUNITY HOSPITAL	MENDOTA	1	3794	0.30				SIR Not Available
MERCER COUNTY HOSPITAL	ALEDO	0	593	0.02				SIR Not Available
MERCER COUNTY HOSPITAL	ALEDO	0	593	0.02				SIR Not Available
MERCY HARVARD HOSPITAL	HARVARD	0	1408	0.05				SIR Not Available
METHODIST HOSPITAL OF CHICAGO	CHICAGO	0	24742	0.94				SIR Not Available
MIDWEST MEDICAL CENTER	GALENA	0	1416	0.05				SIR Not Available
MIDWESTERN REGIONAL MEDICAL CENTER	ZION	0	16070	0.74				SIR Not Available
MORRIS HOSPITAL & HEALTHCARE CENTERS	MORRIS	3	17208	0.84				SIR Not Available
MORRISON COMMUNITY HOSPITAL	MORRISON	0	2787	0.10				SIR Not Available
OSF SAINT ELIZABETH MEDICAL CENTER	OTTAWA	0	14052	0.56				SIR Not Available
OSF SAINT JAMES-JOHN W ALBRECHT MEDICAL CENTER	PONTIAC	0	4849	0.17				SIR Not Available
OSF ST MARY MEDICAL CENTER	GALESBURG	0	15366	0.83				SIR Not Available
PANA COMMUNITY HOSPITAL	PANA	0	1020	0.04				SIR Not Available
PARIS COMMUNITY HOSPITAL	PARIS	0	2169	0.12				SIR Not Available
PASSAVANT AREA HOSPITAL	JACKSONVILLE	1	13513	0.76				SIR Not Available
PEKIN HOSPITAL	PEKIN	1	18022	0.70				SIR Not Available
PERRY MEMORIAL HOSPITAL	PRINCETON	1	3876	0.17				SIR Not Available
PINCKNEYVILLE COMMUNITY HOSPITAL	PINCKNEYVILLE	0	1213	0.04				SIR Not Available
PRESENCE HOLY FAMILY MEDICAL CENTER	DES PLAINES	0	1080	0.06				SIR Not Available
PROVIDENT HOSPITAL OF COOK COUNTY	CHICAGO	1	6305	0.30				SIR Not Available
RED BUD REGIONAL HOSPITAL	RED BUD	0	5996	0.22				SIR Not Available
RICHLAND MEMORIAL HOSPITAL	OLNEY	1	18925	0.95				SIR Not Available
ROCHELLE COMMUNITY HOSPITAL	ROCHELLE	0	1654	0.06				SIR Not Available
ROSELAND COMMUNITY HOSPITAL	CHICAGO	0	21116	0.76				SIR Not Available
SACRED HEART HOSPITAL	CHICAGO	1	15614	0.67				SIR Not Available

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						Lower <sup>e</sup>	Upper	
SAINT ANTHONY'S HEALTH CENTER	ALTON	0	14167	0.74				SIR Not Available
SALEM TOWNSHIP HOSPITAL	SALEM	0	2771	0.10				SIR Not Available
SARAH D CULBERTSON MEMORIAL HOSPITAL	RUSHVILLE	0	1851	0.07				SIR Not Available
SHELBY MEMORIAL HOSPITAL	SHELBYVILLE	0	2662	0.13				SIR Not Available
SHRINERS HOSPITAL FOR CHILDREN	CHICAGO	0	2233	0.11				SIR Not Available
SPARTA COMMUNITY HOSPITAL	SPARTA	0	3446	0.15				SIR Not Available
ST FRANCIS HOSPITAL	LITCHFIELD	0	5602	0.33				SIR Not Available
ST JOSEPH MEMORIAL HOSPITAL	MURPHYSBORO	0	3116	0.16				SIR Not Available
ST JOSEPH'S HOSPITAL	HIGHLAND	0	4392	0.39				SIR Not Available
ST JOSEPH'S HOSPITAL	BREESE	0	3846	0.16				SIR Not Available
ST MARGARET'S HEALTH	SPRING VALLEY	0	8349	0.36				SIR Not Available
ST MARY'S HOSPITAL	STREATOR	0	8006	0.29				SIR Not Available
TAYLORVILLE MEMORIAL HOSPITAL	TAYLORVILLE	0	5307	0.26				SIR Not Available
THOMAS H BOYD MEMORIAL HOSPITAL	CARROLLTON	0	2200	0.11				SIR Not Available
TOUCHE'TTE REGIONAL HOSPITAL	CENTREVILLE	0	10867	0.46				SIR Not Available
UNION COUNTY HOSPITAL	ANNA	0	2508	0.17				SIR Not Available
VALLEY WEST COMMUNITY HOSPITAL	SANDWICH	0	3580	0.25				SIR Not Available
VISTA MEDICAL CENTER WEST	WAUKEGAN	0	14047	0.50				SIR Not Available
WABASH GENERAL HOSPITAL	MOUNT CARMEL	0	2785	0.10				SIR Not Available
WASHINGTON COUNTY HOSPITAL	NASHVILLE	0	1482	0.05				SIR Not Available

<sup>a</sup> The Standardized Infection Ratio (SIR) is a summary measure used to compare the actual number of MDRO events reported with the standard population. It is the observed number of infections divided by the predicted number of infections.

<sup>b</sup> Please note that the predicted number of infections does not mean that you expect to get an infection when you are hospitalized.

<sup>c</sup> If the predicted number of infections is less than 1.00, the SIR is not calculated because it does not meet the minimum requirement for precision.

<sup>d</sup> The 95% confidence interval for a hospital's standardized infection ratio (SIR) is the range of possible SIRs within which there is 95% confidence that the real SIR for that hospital lies. If the number of observed infections is less than 0 and the number predicted is greater than or equal to 1.00, a 95% confidence interval is reported

<sup>e</sup> The lower bound of the confidence interval is calculated only if the infection count is greater than 0.

<sup>f</sup> Statistical Interpretation of SIR:

- If the 95% confidence interval includes 1.00, the hospital's infection rate is “Similar” (not significantly different) from predicted.
- If the SIR is greater than 1.00 and the 95% confidence interval does not include 1.00, the hospital's infection rate is significantly “Higher” than predicted.
- If the SIR is less than 1.00 and the 95% confidence interval does not include 1.00, the hospital's infection rate is significantly “Lower” than predicted.

NOTE: All conclusions are based on the assumption that the hospital's patient population is similar to the referent population (NHSN 2010-2011 pooled patient population)